



Ocean acidification

Required materials

- 2 glasses (transparent glasses, not plastic)
- an indicator (a chemical substance that changes colour if a solution is acidic or basic)
- a straw
- tap water

For the indicator

- a red cabbage
- deionized water
- a mortar

1. Questions before performing the experiment

1. When you hear the term climate change, what comes to your mind?

2. What problems does climate change cause?

3. What do you know about how it affects the oceans?



2. Watch the indicator video and create the indicator

Please wear gloves and an apron.

Prepare the indicator.

3. Watch the first experiment video and perform the experiment

Follow the steps outlined in the tutorial video.

Draw your result in the box below.

4. Observations

1. What did you observe?



2. Make a hypothesis. Why did it happen?

3. What is the gas you blow into the glass?

5. Watch the second experiment video and answer the following questions

1. Did you get similar results?

2. If not, what do you think happened?



6. Summary

1. Why did the colour change?

2. What is the impact of the gas that is exhaled into the water?

3. How do you think you can help the planet?

